

10/661905

=> fil reg

FILE 'REGISTRY' ENTERED AT 16:58:52 ON 05 AUG 2003
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STRUCTURE FILE UPDATES: 4 AUG 2003 HIGHEST RN 560991-54-0
 DICTIONARY FILE UPDATES: 4 AUG 2003 HIGHEST RN 560991-54-0

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2003

Please note that search-term pricing does apply when
 conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details:
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

=> d sta que 138

L33 STR

		12		
G1~^N~^G3	Ak		C~^G2~^Cy	N~^G2~^Cy
1 2 3	{		@5 6 15	@16 17 18
			C~^G2~^Cy	
			@11 13 14	

198713

@19	
	N~^G2~^Cy
	{ 20 21
	Ak
	24

VAR G1=5/11
 REP G2=(0-1) AK
 VAR G3=16/19

NODE ATTRIBUTES:

CONNECT IS M1 RC AT 14
 CONNECT IS M1 RC AT 15
 CONNECT IS M1 RC AT 18
 CONNECT IS M1 RC AT 21
 DEFAULT MLEVEL IS ATOM
 DEFAULT ECLEVEL IS LIMITED

Jan Delaval
 Reference Librarian
 Biotechnology & Chemical Library
 CM1 1E07 - 703-308-4498
 jan.delaval@uspto.gov

GRAPH ATTRIBUTES:
 RING(S) ARE ISOLATED OR EMBEDDED
 NUMBER OF NODES IS 17

STEREO ATTRIBUTES: NONE

L35 SCR 1839 AND 1993
 L36 SCR 1632 OR 1634
 L37 SCR 2039 OR 2127 OR 2050 OR 2049 OR 2048 OR 2053 OR 2052 O
 R 2051 OR 2043 OR 2054 OR 1918
 L38 50 SEA FILE=REGISTRY CSS SAM L33 AND L35 AND L36 NOT L37

3.2% PROCESSED 1000 ITERATIONS
 INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
 SEARCH TIME: 00.00.01

50 ANSWERS

FULL FILE PROJECTIONS: ONLINE **INCOMPLETE**
 BATCH **INCOMPLETE**
 PROJECTED ITERATIONS: 609140 TO 630140
 PROJECTED ANSWERS: 76748 TO 84358

=> d his

(FILE 'HOME' ENTERED AT 15:44:00 ON 05 AUG 2003)
 SET COST OFF

FILE 'HCAPLUS' ENTERED AT 15:44:15 ON 05 AUG 2003
 L1 1 S US20030092716/PN
 SEL RN

FILE 'REGISTRY' ENTERED AT 15:44:28 ON 05 AUG 2003
 L2 65 S E1-E65
 L3 1 S 2215-33-0
 L4 2 S 28668-95-3 OR 31523-22-5
 L5 15 S L2 AND 474787-?/RN
 L6 14 S L5 AND N>=2
 L7 47 S L2 NOT L3-L6
 L8 34 S L7 AND N>=2
 L9 10 S 614-65-3 OR 2824-60-4 OR 3788-81-6 OR 7385-99-1 OR 7727-07-3
 L10 9 S 111781-93-2 OR 157592-75-1 OR 173213-31-5 OR 302954-63-8 OR 3
 L11 19 S L9,L10 AND N>=2
 L12 33 S L6,L11
 L13 32 S L2 NOT L12
 L14 2 S L13 AND UNSPECIFIED

FILE 'HCAPLUS' ENTERED AT 16:39:18 ON 05 AUG 2003
 E ALMSTEAD J/AU
 L15 14 S E5-E7
 E IZZO N/AU
 L16 17 S E4-E9
 E JONES D/AU
 L17 251 S E3
 L18 302 S E84-E94
 E JONES DAVE/AU
 L19 496 S E3,E7
 E JONES DAVID R/AU
 L20 147 S E3-E5,E9
 E KAWAMOTO R/AU
 L21 17 S E3,E4,E6-E8
 L22 1240 S L15-L21
 L23 1239 S L22 NOT L1
 L24 189 S L12
 L25 0 S L23 AND L24
 L26 1 S L24 AND (PROC? OR GAMB?)/PA,CS
 L27 1 S L1,L26 AND L22

FILE 'REGISTRY' ENTERED AT 16:42:27 ON 05 AUG 2003

FILE 'HCAPLUS' ENTERED AT 16:42:32 ON 05 AUG 2003
 SET SMARTSELECT ON
 L28 SEL L23 1- RN : 2418 TERMS
 SET SMARTSELECT OFF

FILE 'REGISTRY' ENTERED AT 16:43:08 ON 05 AUG 2003

L29 2417 S L28
 L30 747 S L29 AND N>=2
 L31 671 S L30 NOT (SQL/FA OR PMS/CI)
 L32 18 S L31 AND ?HYDRAZ?/CNS
 L33 STR
 L34 48 S L33 CSS SAM
 L35 SCR 1839 AND 1993
 L36 SCR 1632 OR 1634
 L37 SCR 2039 OR 2127 OR 2050 OR 2049 OR 2048 OR 2053 OR 2052 OR 205
 L38 50 S L33 AND L35 AND L36 NOT L37 CSS SAM
 L39 STR L33
 L40 50 S L39 AND L35 AND L36 NOT L37 CSS SAM
 L41 STR L39
 L42 50 S L41 AND L35 AND L36 NOT L37 CSS SAM
 L43 STR L41
 L44 50 S L41 AND L35 AND L36 NOT L37 CSS SAM

FILE 'REGISTRY' ENTERED AT 16:58:52 ON 05 AUG 2003

FILE 'HCAPLUS' ENTERED AT 16:59:22 ON 05 AUG 2003

182 S L24 AND (PD<=20010504 OR PRD<=20010504 OR AD<=20010504)
 14819 S L14
 11971 S ERYTHROPOIETIN? OR EPO
 9465 S VASCUL? ENDOTHEL? GROWTH FACTOR
 16 S VASCULOTROPIN?
 508 S VASCUL? PERMEABIL? FACTOR
 276 S EPOETIN?
 10 S ANIMAL GROWTH REGULATOR VEGF
 7709 S VEGF
 1 S L45 AND L46-L53
 1 S L45 AND VASCULAR?
 E BLOOD VESSEL/CT
 1 S L45 AND E3-E59
 0 S L45 AND E60-E96
 0 S L45 AND E97-E113
 E E3+ALL
 1 S L45 AND E4+NT
 E E25+ALL
 0 S L45 AND E4,E5,E3+NT
 1 S L45 AND ?VASCUL?
 1 S L27, L54-L61

=> fil hcaplus

FILE 'HCAPLUS' ENTERED AT 17:07:23 ON 05 AUG 2003
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This file contains CAS Registry Numbers for easy and accurate substance identification.

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L62 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2003 ACS on STN
 AN 2002:868743 HCAPLUS.
 DN 137:352894
 TI Preparation of hydrazones and hydrazines for use in increasing erythropoietin and vascularization of tissue
 IN Almstead, Ji-In Kim; Izzo, Nicholas John; Jones, David Robert
 PA The Procter & Gamble Company, USA
 SO PCT Int. Appl., 53 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 IC ICM A61K031-53
 ICS A61P009-00; A61P013-12; A61P025-00; A61P043-00
 CC 27-16 (Heterocyclic Compounds (One Hetero Atom))
 Section cross-reference(s): 1
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002089809	A1	20021114	WO 2002-US14106	20020506 <--
	W: AE, AG, AL, AM, AT, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, CZ, DE, DE, DK, DK, DM, DZ, EC, EE, EE, ES, FI, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ			RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GO, GW, ML, MR, NE, SN, TD, TG	
	US 2003092716	A1	20030515	US 2002-134890	20020429 <--
PRAI	US 2001-288765P	P	20010504		<--
OS	MARPAT	137:352894			
AB	R1R2R3CNR4NR5R6 [R1, R6 = aryl, cycloalkyl, heteroaryl, heterocycloalkyl; R2, R4 = bond; R2, R4 = H; R3 = H, alkyl] were prepd. for use as VEGF stimulators in increasing erythropoietin and vascularization of tissue. Thus, 2-acetylpyridine was treated with 2-hydrazinopyridine to give the hydrazone which had EC50 for induction of VEGF formation of 0.65 (no units).				
ST	pyridyl hydrazone prepn VEGF erythropoietin vascularization stimulant				
IT	Blood vessel Human (prepns. of pyridyl hydrazones and hydrazines for use in increasing erythropoietin and vascularization of tissue)				
IT	11096-26-7, Erythropoietin 127464-60-2, Vascular endothelial growth factor RL: BSU (Biological study, unclassified); BIOL (Biological study) (prepns. of pyridyl hydrazones and hydrazines for use in increasing erythropoietin and vascularization of tissue)				
IT	2215-33-0P RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses) (prepns. of pyridyl hydrazones and hydrazines for use in increasing erythropoietin and vascularization of tissue)				

IT 614-65-3P 2824-60-4P 3788-81-6P
 7385-99-1P 7727-07-3P 16111-50-5P
 58333-11-2P 59473-50-6P 63711-22-8P
 87877-49-4P 111781-93-2P 157592-75-1P
 173213-31-5P 302954-63-8P 324031-29-0P
 330645-61-9P 330980-90-0P 341942-20-9P
 416885-82-0P 474787-56-9P 474787-57-0P
 474787-58-1P 474787-59-2P 474787-60-5P
 474787-61-6P 474787-62-7P 474787-63-8P
 474787-65-0P 474787-66-1P 474787-67-2P
 474787-68-3P 474787-69-4P 474787-70-7P
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (prepn. of pyridyl hydrazones and hydrazines for use in increasing erythropoietin and vascularization of tissue)
 IT 66-72-8 79-19-6, Thiosemicarbazide 90-02-8, Salicylaldehyde, reactions 91-56-5, 2,3-Indoledione 95-01-2, 2,4-Dihydroxybenzaldehyde 100-63-0, Phenylhydrazine 139-85-5, 3,4-Dihydroxybenzaldehyde 148-53-8, 2-Hydroxy-3-methoxybenzaldehyde 368-90-1, 4- Trifluoromethylphenylhydrazine 529-20-4, o-Tolualdehyde 615-21-4, 2-Benzothiazolylhydrazine 708-06-5, 2-Hydroxy-1-naphthaldehyde 1121-60-4, 2-Pyridinecarboxaldehyde 1122-62-9, 2-Acetylpyridine 1122-72-1, 6-Methyl-2-pyridinecarboxaldehyde 4231-74-7, N-Methyl-N-2-pyridylhydrazine 4930-98-7, 2-Hydrazinopyridine 15793-77-8, 2-Quinolylhydrazine 17284-97-8, 6-Chloro-3-pyridazinylhydrazine 23906-13-0, 4,6-Dimethyl-2-pyrimidinylhydrazine 63286-28-2 63894-54-2 80751-35-5 89570-82-1 138949-13-0 241488-23-3, 5,7-Bis(trifluoromethyl)-1,8-naphthyridin-2-ylhydrazine 474787-64-9, 8-Hydroxy-3-isoquinolinecarboxaldehyde
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (prepn. of pyridyl hydrazones and hydrazines for use in increasing erythropoietin and vascularization of tissue)
 IT 28668-95-3P 31523-22-5P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (prepn. of pyridyl hydrazones and hydrazines for use in increasing erythropoietin and vascularization of tissue)

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

- (1) Collington, E; US 5985913 A 1999 HCAPLUS
- (2) Juras; WO 0216315 A 2002 HCAPLUS
- (3) Lin, Z; US 5942527 A 1999 HCAPLUS
- (4) Mei, X; US 6329378 B1 2001 HCAPLUS

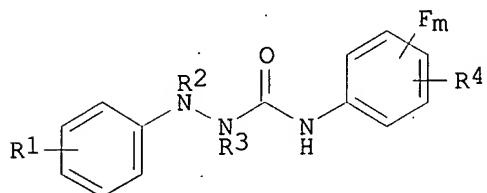
=> d all hitstr tot

L69 ANSWER 1 OF 4 HCAPLUS COPYRIGHT 2003 ACS on STN
 AN 2002:157730 HCAPLUS
 DN 136:216542
 TI Preparation of arylsemicarbazides as Factor XA inhibitors.
 IN Mederski, Werner; Juraszyk, Horst; Dorsch, Dieter; Tsaklakidis, Christos; Gleitz, Johannes; Barnes, Christopher
 PA Merck Patent G.m.b.H., Germany
 SO PCT Int. Appl., 52 pp.
 CODEN: PIXXD2
 DT Patent
 LA German
 IC ICM C07C311-47
 ICS C07C317-42; C07C333-04; C07D211-46; C07D213-30; C07D257-04; C07D295-08; C07D317-40; A61K031-175; A61K031-18; A61P009-00; A61P035-00

CC 25-22 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)
 Section cross-reference(s): 1

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002016315	A1	20020228	WO 2001-EP9667	20010821
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	DE 10040783	A1	20020307	DE 2000-10040783	20000821
	AU 2001082113	A5	20020304	AU 2001-82113	20010821
	EP 1311476	A1	20030521	EP 2001-960693	20010821
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
	NO 2003000796	A	20030220	NO 2003-796	20030220
PRAI	DE 2000-10040783	A	20000821		
	WO 2001-EP9667	W	20010821		
OS	MARPAT	136:216542			
GI					



AB Title compds. [I; R1 = (substituted) (CH₂)_nNH₂, CON:C(NH₂)₂, NHC(:NH)NH₂, C(:NH)NH₂; R2 = CO₂A; R3 = (cyclic) alkyl optionally interrupted by O, S; R4 = (substituted) Ph, etc.; A = H, (cyclic) alkyl; m = 0-4; n = 1-6], were prepd. Thus, 4'-[3-tert-butoxycarbonyl-3-[3-(N₁-hydroxyamidino)phenyl]-2-propylcarbazoylamino]-N-tert-butylbiphenyl-2-sulfonamide (prepn. given) was stirred overnight in CF₃CO₂H to give 4'-[3-[3-(N₂-hydroxyamidino)phenyl]-2-propylcarbazoylamino]biphenyl-2-sulfonamide.

ST arylsemicarbazide prepn factor xa inhibitor; hydroxy amidinophenyl propylcarbazoylamino biphenylsulfonamide prepn factor xa inhibitor; semicarbazide biphenylsulfonamide amidinophenyl prepn factor xa inhibitor; antithrombotic arylsemicarbazide prepn; anticancer arylsemicarbazide prepn; antianginal arylsemicarbazide prepn; antiinflammatory arylsemicarbazide prepn; antiarteriosclerotic arylsemicarbazide prepn

IT Brain, disease
 (cerebrovascular, treatment; prepn. of arylsemicarbazides as Factor XA inhibitors)

IT Artery, disease
 (coronary, restenosis, treatment; prepn. of arylsemicarbazides as Factor XA inhibitors)

IT Heart, disease
 (infarction, treatment; prepn. of arylsemicarbazides as Factor XA inhibitors)

IT Artery, disease
 (intermittent claudication, treatment; prepn. of arylsemicarbazides as Factor XA inhibitors)

IT Antitumor agents
 (metastasis; prepn. of arylsemicarbazides as Factor XA inhibitors)

IT Anti-inflammatory agents
 Antiangular agents
 Antiarteriosclerotics
 Anticoagulants
 Antitumor agents
 Human
 (prepn. of arylsemicarbazides as Factor XA inhibitors)

IT Amidines
 Sulfonamides
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (prepn. of arylsemicarbazides as Factor XA inhibitors)

IT 9002-05-5, Factor XA
 RL: BSU (Biological study, unclassified); BIOL (Biological study)
 (inhibitors; prepn. of arylsemicarbazides as Factor XA inhibitors)

IT 57-56-7DP, Semicarbazide, derivs. 401948-20-7P 401948-22-9P
 401948-23-0P 401948-25-2P 401948-26-3P 401948-28-5P 401948-29-6P
 401948-31-0P 401948-32-1P 401948-33-2P 401948-35-4P 401948-37-6P
 401948-38-7P 401948-39-8P 401948-40-1P 401948-41-2P 401948-42-3P
 401948-43-4P 401948-44-5P 401948-45-6P 401948-46-7P 401948-47-8P
 401948-48-9P 401948-49-0P 401948-50-3P 401948-51-4P 401948-52-5P
 401948-53-6P 401948-54-7P 401948-55-8P 401948-56-9P 401948-57-0P
 401948-58-1P 401948-59-2P 401948-60-5P 401948-61-6P 401948-62-7P
 401948-63-8P 401948-64-9P 401948-65-0P 401948-66-1P 401948-67-2P
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 401948-78-5P 401948-79-6P 401948-80-9P 401948-81-0P 401948-82-1P
 401948-83-2P 401948-84-3P 401948-85-4P 401948-86-5P 401948-87-6P
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 401948-93-4P 401948-94-5P 401948-95-6P 401948-96-7P 401948-97-8P
 401948-98-9P 401948-99-0P 401949-00-6P 401949-01-7P 401949-02-8P
 401949-03-9P 401949-04-0P 401949-05-1P 401949-06-2P 401949-07-3P
 401949-08-4P 401949-09-5P 401949-10-8P 401949-11-9P 401949-12-0P
 401949-13-1P 401949-14-2P 401949-15-3P 401949-16-4P 401949-17-5P
 401949-18-6P 401949-19-7P 401949-20-0P 401949-21-1P 401949-22-2P
 401949-23-3P 401949-24-4P
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (prepn. of arylsemicarbazides as Factor XA inhibitors)

IT 6952-59-6, 3-Bromobenzonitrile 15845-62-2, 4-Iodophenyl isocyanate
 150691-04-6, 2-(tert-Butylaminosulfonyl)phenylboronic acid 168618-42-6,
 2-Methylthiophenylboronic acid
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (prepn. of arylsemicarbazides as Factor XA inhibitors)

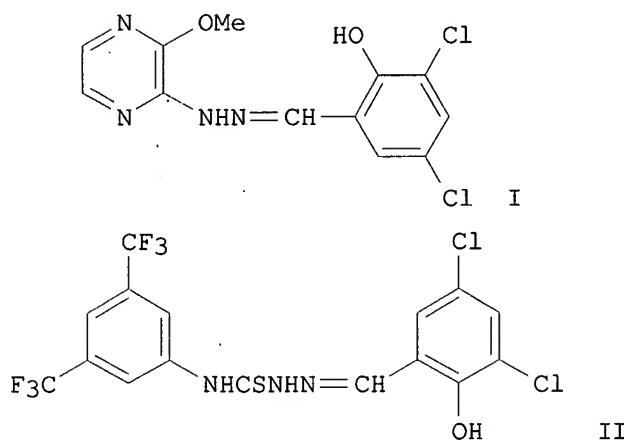
IT 380383-84-6P 401949-25-5P 401949-26-6P 401949-27-7P 401949-28-8P
 401949-29-9P 401949-30-2P 401949-31-3P 401949-32-4P 401949-33-5P
 401949-34-6P 401949-35-7P 401949-36-8P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (prepn. of arylsemicarbazides as Factor XA inhibitors)

RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD
 RE
 (1) Fevig, J; BIOORGANIC AND MEDICINAL CHEMISTRY LETTERS 1998, V8(22), P3143 HCAPLUS
 (2) Kissei Pharmaceutical; EP 1020434 A 2000 HCAPLUS

L69 ANSWER 2 OF 4 HCAPLUS COPYRIGHT 2003 ACS on STN
 AN 2001:895648 HCAPLUS
 DN 136:19729

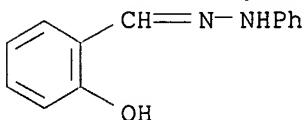
TI Hydrazone, hydrazine and thiosemicarbazone derivatives as antifungal agents
 IN Mei, Xiaodan; Wang, Peng; Caracoti, Andrei; Mingo, Pamela; Boyd, Vincent; Murray, Robert; Sisti, Nicholas J.; Xiang, Yi Bin; Zhu, Shuhao; Wobbe, C. Richard; Moore, Daniel
 PA Anadys Pharmaceuticals, Inc., USA
 SO U.S., 14 pp.
 CODEN: USXXAM
 DT Patent
 LA English
 IC ICM C07D241-12
 ICS C07D241-14; A61K031-4965
 NCL 514255050
 CC 21-2 (General Organic Chemistry)
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI US 6329378	B1	20011211	US 2000-501758	20000210 <--
PRAI US 1999-119387P	P	19990210		
US 1999-141117P	P	19990625		
OS MARPAT 136:19729				
GI				



AB Title compds. such as I and (E)-II were prep'd. as antifungal agents. Thus, I was prep'd. in 3 steps starting from 2,3-dichloropyrazine and proceeding via 2-chloro-3-methoxypyrazine and 2-hydrazinyl-3-methoxypyrazine, the latter then being reacted with 3,5-dichlorosalicylaldehyde. I showed min. inhibitory concns. of 1, 1, and 2 .mu.g/mL against *Candida albicans*, *Saccharomyces cerevisiae*, and *Aspergillus nidulans*, resp.
 ST antifungal hydrazine hydrazone thiosemicarbazone prepn
 IT Fungicides
 (hydrazone, hydrazine and thiosemicarbazone derivs.)
 IT Hydrazones
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (hydrazone, hydrazine and thiosemicarbazone derivs.)
 IT Semicarbazones
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (thiosemicarbazones; hydrazone, hydrazine and thiosemicarbazone

- derivs.)
- IT 378780-56-4P
 RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
 (hydrazone, hydrazine and thiosemicarbazone derivs. as antifungal agents)
- IT 614-65-3P 330980-93-3P 330981-02-7P 378780-54-2P
 378780-55-3P 378780-57-5P 378780-58-6P 378780-59-7P 378780-60-0P
 378780-61-1P 378780-62-2P 378780-63-3P 378780-64-4P 378780-66-6P
 378780-67-7P 378780-68-8P 378780-69-9P 378780-70-2P 378780-71-3P
 378780-72-4P 378780-73-5P 378780-74-6P 378780-75-7P 378780-76-8P
 378780-77-9P 378780-78-0P 378780-79-1P 378780-80-4P 378780-81-5P
 378780-82-6P 378780-83-7P 378780-84-8P 378780-85-9P 378780-86-0P
 378780-87-1P 378780-88-2P 378780-89-3P 378780-90-6P 378780-92-8P
 378780-93-9P 378780-94-0P 378780-95-1P 378780-96-2P 378780-97-3P
 378780-98-4P 378780-99-5P 378781-00-1P 378781-01-2P 378783-29-0P
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (hydrazone, hydrazine and thiosemicarbazone derivs. as antifungal agents)
- IT 90-60-8, 3,5-Dichlorosalicylaldehyde 95-01-2, 2,4-Dihydroxybenzaldehyde
 104-37-0, 4-Dodecylbenzyl chloride 4858-85-9, 2,3-Dichloropyrazine
 23165-29-9, 3,5-Bis(trifluoromethyl)phenyl isothiocyanate 43002-22-8
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (hydrazone, hydrazine and thiosemicarbazone derivs. as antifungal agents)
- IT 40155-28-0P, 2-Chloro-3-methoxypyrazine 210993-11-6P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (hydrazone, hydrazine and thiosemicarbazone derivs. as antifungal agents)
- IT 260563-16-4P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (hydrazone, hydrazine and thiosemicarbazone derivs. as antifungal agents)
- RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD
- RE
- (1) Konishi; Nippon Noyaku Gakkaishi V14, P295 HCPLUS
 (2) Schilt; Talanta V26, P373 HCPLUS
- IT 614-65-3P
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (hydrazone, hydrazine and thiosemicarbazone derivs. as antifungal agents)
- RN 614-65-3 HCPLUS
 CN Benzaldehyde, 2-hydroxy-, phenylhydrazone (9CI) (CA INDEX NAME)



L69 ANSWER 3 OF 4 HCPLUS COPYRIGHT 2003 ACS on STN
 AN 1999:733853 HCPLUS
 DN 131:322537
 TI Preparation_of_10,11-dihydro-11-hydroxybenz[b]indeno[2,1-e]pyran-10-ones—and analogs for enhancing biosynthesis of erythropoietin

IN Williams, Jonathan Gareth; Houck, David R.; Smith, David Edward; Rathbone, Daniel Lee; Billington, David Charles; Golding, Bernard T.; Collington, Eric W.; Kitchin, John; Rich, Nicholas

PA OSI Pharmaceuticals, Inc., USA

SO U.S., 13 pp., Cont.-in-part of U.S. 5,882,436.
CODEN: USXXAM

DT Patent

LA English

IC ICM A61K031-35

ICS A61K031-365; C07D311-78

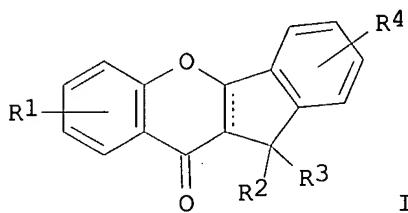
NCL 514453000

CC 27-14 (Heterocyclic Compounds (One Hetero Atom))
Section cross-reference(s): 1

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5985913	A	19991116	US 1998-69693	19980429 <--
PRAI	US 1996-32268P	P	19961129		
	US 1997-978346	A2	19971126		
OS	MARPAT 131:322537				

GI



AB Title compds. [I; R1,R4 = H or 1-4 of halo, alkyl, alkoxy, etc.; R2 = OR10 and R3 = H or R2R3 = O; R10 = H or alkanoyl; dashed line = optional addnl. bond] were prepd. Thus, 3',5'-dimethyl-2'-hydroxy-2-methylsulfinylacetophenone (prepn. given) was cyclocondensed with 2-(OHC)C6H4CHO to give I (R1 = 6,8-Me2, R2 = OH, R3 = R4 = H, dashed line = bond). Data for biol. activity of I were given.

ST hydroxybenzindenopyranone prepns **erythropoietin** biosynthesis;
anemia treatment hydroxybenzindenopyranone prepns

IT Anemia (disease)
(treatment; prepns. of 10,11-dihydro-11-hydroxybenz[b]indeno[2,1-e]pyran-10-ones and analogs for enhancing biosynthesis of **erythropoietin**)

IT 249514-70-3P 249514-71-4P 249514-72-5P 249514-73-6P 249514-74-7P
249514-75-8P 249514-76-9P 249514-77-0P 249514-78-1P 249514-79-2P
249514-80-5P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepns. of 10,11-dihydro-11-hydroxybenz[b]indeno[2,1-e]pyran-10-ones and analogs for enhancing biosynthesis of **erythropoietin**)

IT 11096-26-7, **Erythropoietin**
RL: BOC (Biological occurrence); BSU (Biological study, unclassified); BIOL (Biological study); OCCU (Occurrence)
(prepns. of 10,11-dihydro-11-hydroxybenz[b]indeno[2,1-e]pyran-10-ones and analogs for enhancing biosynthesis of **erythropoietin**)

IT 105-67-9, 2,4-Dimethylphenol 643-79-8, Benzene-1,2-dicarboxaldehyde
13209-31-9, 4-Chlorobenzene-1,2-dicarboxaldehyde 89226-83-5,
4-Fluorobenzene-1,2-dicarboxaldehyde 161747-14-4, 3-Fluorobenzene-1,2-dicarboxaldehyde

RL: RCT (Reactant); RACT (Reactant or reagent)
 (prepn. of 10,11-dihydro-11-hydroxybenz[b]indeno[2,1-e]pyran-10-ones
 and analogs for enhancing biosynthesis of erythropoietin)

IT 6245-04-1P 55359-87-0P 117369-92-3P 249514-81-6P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (prepn. of 10,11-dihydro-11-hydroxybenz[b]indeno[2,1-e]pyran-10-ones
 and analogs for enhancing biosynthesis of erythropoietin)

RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

- (1) Erb; US 5107032 1992 HCPLUS
- (2) Farooq, O; Synthesis 1994, V1035
- (3) Whitehouse, M; Biochemical Pharmacology 1966, V16, P537

IT 11096-26-7, Erythropoietin

RL: BOC (Biological occurrence); BSU (Biological study, unclassified);
 BIOL (Biological study); OCCU (Occurrence)
 (prepn. of 10,11-dihydro-11-hydroxybenz[b]indeno[2,1-e]pyran-10-ones
 and analogs for enhancing biosynthesis of erythropoietin)

RN 11096-26-7 HCPLUS

CN Erythropoietin (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

L69 ANSWER 4 OF 4 HCPLUS COPYRIGHT 2003 ACS on STN

AN 1999:537949 HCPLUS

DN 131:170270

TI Hydrazones, hydrazines, semicarbazones and thiosemicarbazones derived from
 pyridyl ketones as anticonvulsant drugs and excitatory amino acid
 antagonists

IN Kadaba, Pankaja K.; Lin, Zhaiwei

PA K & K Biosciences, Inc., USA

SO U.S., 12 pp.

CODEN: USXXAM

DT Patent

LA English

IC ICM C07D213-02

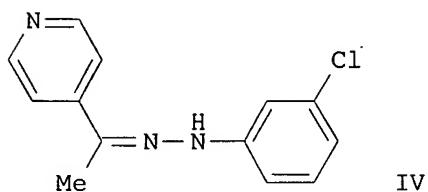
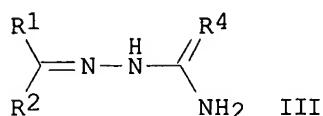
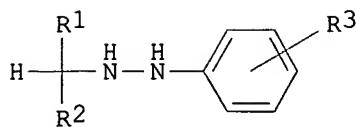
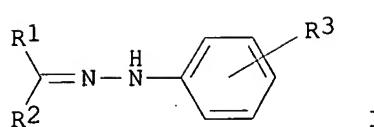
ICS A61K031-44

NCL 514357000

CC 27-16 (Heterocyclic Compounds (One Hetero Atom))
 Section cross-reference(s): 1

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5942527	A	19990824	US 1997-917925	19970827 <--
PRAI	US 1997-917925		19970827		
OS	MARPAT 131:170270				
GI					



AB Pharmaceutical compns. comprise, as the active ingredients, hydrazones, hydrazines, and semicarbazones of the formulas I, II, and III [wherein R₁ = 4-pyridyl or 3-pyridyl; R₂ = Me, Et, Ph; R₃ = 3,4-dichloro, p-chloro, or m-chloro; R₄ = O or S]. The compds. are potent, orally active, nonneurotoxic anticonvulsants that are highly effective in the MES animal model, and are excitatory amino acid antagonists. The compns. are administered at dosages ranging from about 10 mg/kg to 200 mg/kg of body wt. The hydrazones I were prep'd. by condensation of pyridyl ketones with phenylhydrazine hydrochlorides. The hydrazones I were reduced with BH₃.THF to give the hydrazines II. Condensation of pyridyl ketones with semicarbazide gave the semicarbazones III. For instance, condensation of 3-ClC₆H₄NHNH₂.HCl with Me 4-pyridyl ketone in refluxing aq. MeOH gave 77% title hydrazone IV. The latter had ED₅₀ of 81.78 mg/kg i.p. in mice in the maximal electroshock seizure test, with a TD₅₀ of 441.28 mg/kg in the rotorod test.

ST pyridyl ketone hydrazone hydrazine semicarbazone prepn anticonvulsant; excitatory amino acid antagonist pyridyl ketone deriv prepn

IT Neurotransmitter antagonists

(excitatory amino acid; prepn. of hydrazones, hydrazines, semicarbazones, and thiosemicarbazones from pyridyl ketones as anticonvulsants and excitatory amino acid antagonists)

IT Anticonvulsants

Glutamate antagonists
(prepn. of hydrazones, hydrazines, semicarbazones, and thiosemicarbazones from pyridyl ketones as anticonvulsants and excitatory amino acid antagonists)

IT Hydrazones

Semicarbazones
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(target compd.; prepn. of hydrazones, hydrazines, semicarbazones, and thiosemicarbazones from pyridyl ketones as anticonvulsants and excitatory amino acid antagonists)

IT 29078-51-1, (4-Chlorophenyl)[1-(3-pyridyl)ethyl]amine 239116-87-1,
(3-Chlorophenyl)[1-(3-pyridyl)ethyl]amine 239116-88-2,
(4-Chlorophenyl)[phenyl(4-pyridyl)methyl]amine
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)
(comparison compd.; prepn. of hydrazones, hydrazines, semicarbazones, and thiosemicarbazones from pyridyl ketones as anticonvulsants and excitatory amino acid antagonists)

IT 152127-29-2, (3,4-Dichlorophenyl)[1-(4-pyridyl)ethyl]amine
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)
(comparison compds.; prepn. of hydrazones, hydrazines, semicarbazones,

- and thiosemicarbazones from pyridyl ketones as anticonvulsants and excitatory amino acid antagonists)
- IT 350-03-8, Methyl 3-pyridyl ketone 1073-70-7, 4-Chlorophenylhydrazine hydrochloride 1122-54-9, Methyl 4-pyridyl ketone 1570-48-5, Ethyl 3-pyridyl ketone 1701-69-5, Ethyl 4-pyridyl ketone 2312-23-4, 3-Chlorophenylhydrazine hydrochloride 5424-19-1, Phenyl 3-pyridyl ketone 14548-46-0, Phenyl 4-pyridyl ketone 19763-90-7, 3,4-Dichlorophenylhydrazine hydrochloride
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (starting material; prepn. of hydrazones, hydrazines, semicarbazones, and thiosemicarbazones from pyridyl ketones as anticonvulsants and excitatory amino acid antagonists)
- IT 77129-21-6P, Methyl 4-pyridyl ketone 3-chlorophenylhydrazone 239116-69-9P, Methyl 3-pyridyl ketone 3,4-dichlorophenylhydrazone 239116-70-2P, Methyl 3-pyridyl ketone 4-chlorophenylhydrazone
 RL: ADV (Adverse effect, including toxicity); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
 (target compd.; prepn. of hydrazones, hydrazines, semicarbazones, and thiosemicarbazones from pyridyl ketones as anticonvulsants and excitatory amino acid antagonists)
- IT 239116-67-7P, Methyl 4-pyridyl ketone 3,4-dichlorophenylhydrazone 239116-85-9P, Phenyl 4-pyridyl ketone semicarbazone 239116-86-0P, Phenyl 3-pyridyl ketone semicarbazone
 RL: ADV (Adverse effect, including toxicity); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (target compd.; prepn. of hydrazones, hydrazines, semicarbazones, and thiosemicarbazones from pyridyl ketones as anticonvulsants and excitatory amino acid antagonists)
- IT 239116-68-8P, Methyl 4-pyridyl ketone 4-chlorophenylhydrazone 239116-71-3P, Methyl 3-pyridyl ketone 3-chlorophenylhydrazone
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
 (target compd.; prepn. of hydrazones, hydrazines, semicarbazones, and thiosemicarbazones from pyridyl ketones as anticonvulsants and excitatory amino acid antagonists)
- IT 6335-40-6P, Methyl 3-pyridyl ketone semicarbazone 52140-92-8P, Methyl 4-pyridyl ketone semicarbazone 239116-72-4P, Ethyl 4-pyridyl ketone 3,4-dichlorophenylhydrazone 239116-73-5P, Ethyl 4-pyridyl ketone 4-chlorophenylhydrazone 239116-74-6P, Ethyl 4-pyridyl ketone 3-chlorophenylhydrazone 239116-75-7P, Phenyl 4-pyridyl ketone 3,4-dichlorophenylhydrazone 239116-76-8P, Phenyl 4-pyridyl ketone 4-chlorophenylhydrazone 239116-77-9P, Phenyl 4-pyridyl ketone 3-chlorophenylhydrazone 239116-78-0P, 1-(4-Chlorophenyl)-2-[1-(4-pyridyl)ethyl]hydrazine dihydrochloride 239116-79-1P, 1-(3-Chlorophenyl)-2-[1-(4-pyridyl)ethyl]hydrazine dihydrochloride 239116-80-4P, 1-(3,4-Dichlorophenyl)-2-[1-(3-pyridyl)ethyl]hydrazine dihydrochloride 239116-81-5P, 1-(4-Chlorophenyl)-2-[1-(3-pyridyl)ethyl]hydrazine dihydrochloride 239116-82-6P, 1-(3-Chlorophenyl)-2-[1-(3-pyridyl)ethyl]hydrazine dihydrochloride 239116-83-7P, Ethyl 4-pyridyl ketone semicarbazone 239116-84-8P, Ethyl 3-pyridyl ketone semicarbazone
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (target compd.; prepn. of hydrazones, hydrazines, semicarbazones, and thiosemicarbazones from pyridyl ketones as anticonvulsants and

excitatory amino acid antagonists)

IT 302-01-2DP, Hydrazine, derivs., preparation
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (target compds.; prepn. of hydrazones, hydrazines, semicarbazones, and thiosemicarbazones from pyridyl ketones as anticonvulsants and excitatory amino acid antagonists)

RE.CNT 40 THERE ARE 40 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

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- (2) Anon; Chemical Abstracts, vol. 57, 1962, p. 3420
- (3) Butler; J Chem So Perkin Trans 1 1984, P2109 HCPLUS
- (4) Cesti; US 4933290 1990 HCPLUS
- (5) Chu; Journal of Organic Chemistry 1958, V23, P1578 HCPLUS
- (6) Da Re; Synthesis of Powerful Central Nervous System Stimulants 1960, V25, P1097 HCPLUS
- (7) Davison; Infrared Spectra of Semicarbazones 1955, P3389 HCPLUS
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- (9) Felder; Piridinaldeidi 1955, P386
- (10) Ferrari; US 4683245 1987 HCPLUS
- (11) Foster; Brain Research Reviews 1984, V7, P103 HCPLUS
- (12) Foster, A; Involvement of Excitatory Amino Acid Receptors in the Mechanisms Underlying Excitotoxic Phenomena 1986, P303 HCPLUS
- (13) Giordano; US 4888433 1989 HCPLUS
- (14) Huntress; Beckmann Rearrangement of the Oximes of Phenyl 2-Pyridyl Ketone (2-Benzoylpyridine) 1948, V70, P3702 HCPLUS
- (15) Kadaba; US 4511572 1985 HCPLUS
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- (19) Kadaba; US 4820721 1989 HCPLUS
- (20) Kadaba; Bioorganic & Medicinal Chemistry 1996, V4(2), P165 HCPLUS
- (21) Karabatsos; JACS V84, P753 HCPLUS
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- (29) Pfenninger; 1969, V70(16), P331 HCPLUS
- (30) Popp, F; Eur J Med Chem 1989, V24, P313
- (31) Popp, F; J Heterocyclic Chem 1984, V21, P1641 HCPLUS
- (32) Popp, F; J Heterocyclic Chem 1984, V21, P617 HCPLUS
- (33) Porter; Basic and Clinical Pharmacology Fourth Edition 1989, P287
- (34) Porter; Cleveland Clinic Quarterly 1984, V51(2), P293 MEDLINE
- (35) Porter, R; Epilepsia 1989, V30(Suppl 1), PS29
- (36) Stenberg; The Journal of Organic Chemistry 1968, V33(12), P4402 HCPLUS
- (37) Teague; Some Pyridylhydantoins 1953, V75, P3429 HCPLUS
- (38) Thummel; J Org Chem 1989, V54, P1720 HCPLUS
- (39) Wallach; Biochim Biophysica Acta 1981, V663(2), P361 HCPLUS
- (40) Watkins; Ann Rev Pharmacol Toxicol 1981, V21, P165 HCPLUS

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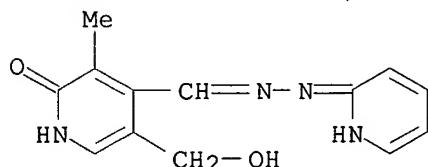
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Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details:
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

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L12 ANSWER 1 OF 33 REGISTRY COPYRIGHT 2003 ACS on STN
 RN 474787-70-7 REGISTRY
 CN 4-Pyridinecarboxaldehyde, 1,2-dihydro-5-(hydroxymethyl)-3-methyl-2-oxo-,
 4-(2-pyridinylhydrazone) (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C13 H14 N4 O2
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL



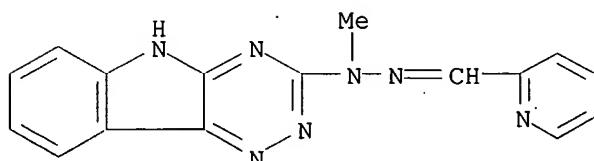
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PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1947 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1947 TO DATE)

REFERENCE 1: 137:352894

L12 ANSWER 2 OF 33 REGISTRY COPYRIGHT 2003 ACS on STN
 RN 474787-69-4 REGISTRY
 CN 2-Pyridinecarboxaldehyde, methyl-5H-1,2,4-triazino[5,6-b]indol-3-ylhydrazone (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C16 H13 N7
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL

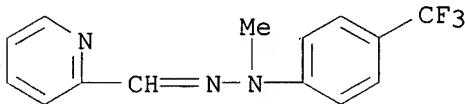


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

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 1 REFERENCES IN FILE CAPLUS (1947 TO DATE)

REFERENCE 1: 137:352894

L12 ANSWER 3 OF 33 REGISTRY COPYRIGHT 2003 ACS on STN
 RN **474787-68-3** REGISTRY
 CN 2-Pyridinecarboxaldehyde, methyl[4-(trifluoromethyl)phenyl]hydrazone (9CI)
 (CA INDEX NAME)
 FS 3D CONCORD
 MF **C14 H12 F3 N3**
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL

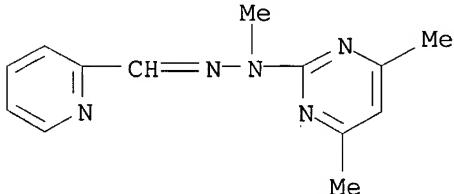


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

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 1 REFERENCES IN FILE CAPLUS (1947 TO DATE)

REFERENCE 1: 137:352894

L12 ANSWER 4 OF 33 REGISTRY COPYRIGHT 2003 ACS on STN
 RN **474787-67-2** REGISTRY
 CN 2-Pyridinecarboxaldehyde, (4,6-dimethyl-2-pyrimidinyl)methylhydrazone
 (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF **C13 H15 N5**
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL



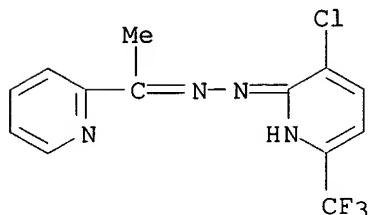
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REFERENCE 1: 137:352894

L12 ANSWER 5 OF 33 REGISTRY COPYRIGHT 2003 ACS on STN
 RN **474787-66-1** REGISTRY
 CN 2(1H)-Pyridinone, 3-chloro-6-(trifluoromethyl)-, [1-(2-pyridinyl)ethylidene]hydrazone (9CI) (CA INDEX NAME)

FS 3D CONCORD
 MF C13 H10 Cl F3 N4
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL

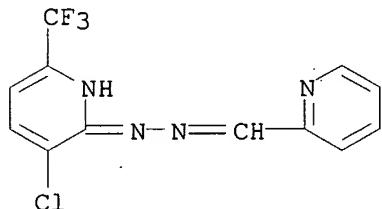


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1947 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1947 TO DATE)

REFERENCE 1: 137:352894

L12 ANSWER 6 OF 33 REGISTRY COPYRIGHT 2003 ACS on STN
 RN 474787-65-0 REGISTRY
 CN 2-Pyridinecarboxaldehyde, [3-chloro-6-(trifluoromethyl)-2-pyridinyl]hydrazone (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C12 H8 Cl F3 N4
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL

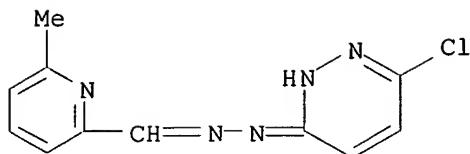


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1947 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1947 TO DATE)

REFERENCE 1: 137:352894

L12 ANSWER 7 OF 33 REGISTRY COPYRIGHT 2003 ACS on STN
 RN 474787-63-8 REGISTRY
 CN 2-Pyridinecarboxaldehyde, 6-methyl-, (6-chloro-3-pyridazinyl)hydrazone (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C11 H10 Cl N5
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL

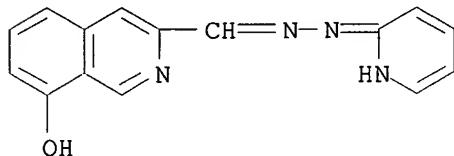


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1947 TO DATE)
1 REFERENCES IN FILE CAPLUS (1947 TO DATE)

REFERENCE 1: 137:352894

L12 ANSWER 8 OF 33 REGISTRY COPYRIGHT 2003 ACS on STN
RN 474787-62-7 REGISTRY
CN 3-Isoquinolinecarboxaldehyde, 8-hydroxy-, 2-pyridinylhydrazone (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C15 H12 N4 O
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

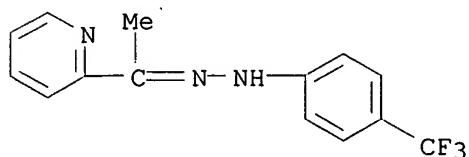


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1947 TO DATE)
1 REFERENCES IN FILE CAPLUS (1947 TO DATE)

REFERENCE 1: 137:352894

L12 ANSWER 9 OF 33 REGISTRY COPYRIGHT 2003 ACS on STN
RN 474787-61-6 REGISTRY
CN Ethanone, 1-(2-pyridinyl)-, [4-(trifluoromethyl)phenyl]hydrazone (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C14 H12 F3 N3
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

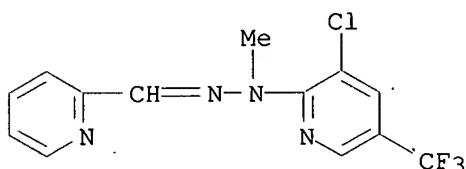


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1947 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1947 TO DATE)

REFERENCE 1: 137:352894

L12 ANSWER 10 OF 33 REGISTRY COPYRIGHT 2003 ACS on STN
 RN 474787-60-5 REGISTRY
 CN 2-Pyridinecarboxaldehyde, [3-chloro-5-(trifluoromethyl)-2-pyridinyl]methylhydrazone (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C13 H10 Cl F3 N4
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL

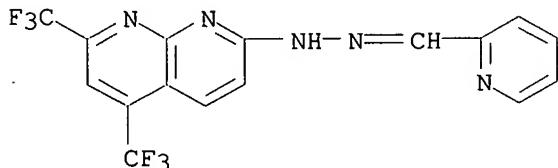


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1947 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1947 TO DATE)

REFERENCE 1: 137:352894

L12 ANSWER 11 OF 33 REGISTRY COPYRIGHT 2003 ACS on STN
 RN 474787-59-2 REGISTRY
 CN 2-Pyridinecarboxaldehyde, [5,7-bis(trifluoromethyl)-1,8-naphthyridin-2-yl]hydrazone (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C16 H9 F6 N5
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL



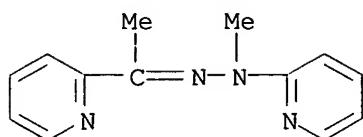
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1947 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1947 TO DATE)

REFERENCE 1: 137:352894

L12 ANSWER 12 OF 33 REGISTRY COPYRIGHT 2003 ACS on STN
 RN 474787-58-1 REGISTRY
 CN Ethanone, 1-(2-pyridinyl)-, methyl-2-pyridinylhydrazone (9CI) (CA INDEX NAME)
 FS 3D CONCORD

MF C13 H14 N4
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL

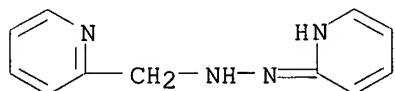


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1947 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1947 TO DATE)

REFERENCE 1: 137:352894

L12 ANSWER 13 OF 33 REGISTRY COPYRIGHT 2003 ACS on STN
 RN 474787-57-0 REGISTRY
 CN 2(1H)-Pyridinone, (2-pyridinylmethyl)hydrazone (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C11 H12 N4
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL

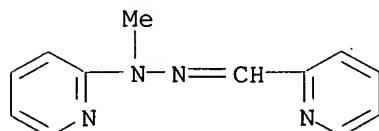


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1947 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1947 TO DATE)

REFERENCE 1: 137:352894

L12 ANSWER 14 OF 33 REGISTRY COPYRIGHT 2003 ACS on STN
 RN 474787-56-9 REGISTRY
 CN 2-Pyridinecarboxaldehyde, methyl-2-pyridinylhydrazone (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C12 H12 N4
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL

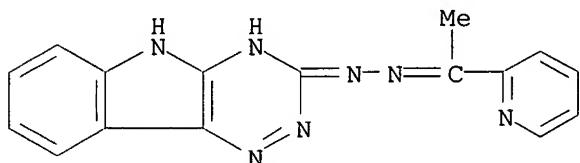


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1947 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1947 TO DATE)

REFERENCE 1: 137:352894

L12 ANSWER 15 OF 33 REGISTRY COPYRIGHT 2003 ACS on STN
 RN 416885-82-0 REGISTRY
 CN 3H-1,2,4-Triazino[5,6-b]indol-3-one, 2,4-dihydro-, [1-(2-pyridinyl)ethylidene]hydrazone (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C16 H13 N7
 SR Chemical Library
 LC STN Files: CA, CAPLUS, CHEMCATS, USPATFULL

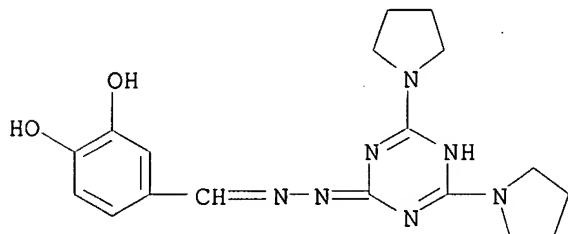


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1947 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1947 TO DATE)

REFERENCE 1: 137:352894

L12 ANSWER 16 OF 33 REGISTRY COPYRIGHT 2003 ACS on STN
 RN 341942-20-9 REGISTRY
 CN Benzaldehyde, 3,4-dihydroxy-, (4,6-di-1-pyrrolidinyl-1,3,5-triazin-2-yl)hydrazone (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C18 H23 N7 O2
 SR Chemical Library
 LC STN Files: CA, CAPLUS, CHEMCATS, USPATFULL



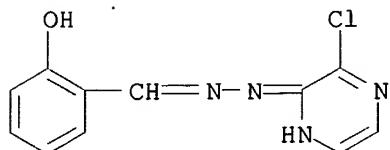
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1947 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1947 TO DATE)

REFERENCE 1: 137:352894

L12 ANSWER 17 OF 33 REGISTRY COPYRIGHT 2003 ACS on STN
 RN 330980-90-0 REGISTRY
 CN Benzaldehyde, 2-hydroxy-, (3-chloropyrazinyl)hydrazone (9CI) (CA INDEX NAME)

FS 3D CONCORD
 MF C11 H9 Cl N4 O
 SR Chemical Library
 LC STN Files: CA, CAPLUS, CHEMCATS, USPATFULL

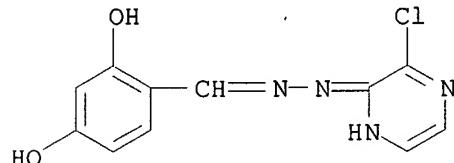


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1947 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1947 TO DATE)

REFERENCE 1: 137:352894

L12 ANSWER 18 OF 33 REGISTRY COPYRIGHT 2003 ACS on STN
 RN 330645-61-9 REGISTRY
 CN Benzaldehyde, 2,4-dihydroxy-, (3-chloropyrazinyl)hydrazone (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C11 H9 Cl N4 O2
 SR Chemical Library
 LC STN Files: CA, CAPLUS, CHEMCATS, USPATFULL

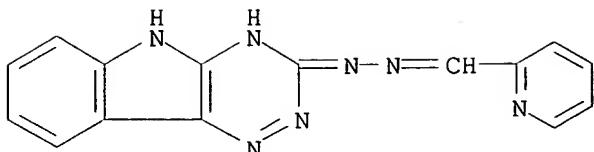


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1947 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1947 TO DATE)

REFERENCE 1: 137:352894

L12 ANSWER 19 OF 33 REGISTRY COPYRIGHT 2003 ACS on STN
 RN 324031-29-0 REGISTRY
 CN 2-Pyridinecarboxaldehyde, (4H-1,2,4-triazino[5,6-b]indol-3-yl)hydrazone (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C15 H11 N7
 SR Chemical Library
 LC STN Files: CA, CAPLUS, CHEMCATS, USPATFULL

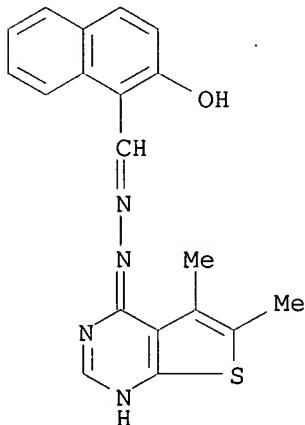


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1947 TO DATE)
1 REFERENCES IN FILE CAPLUS (1947 TO DATE)

REFERENCE 1: 137:352894

L12 ANSWER 20 OF 33 REGISTRY COPYRIGHT 2003 ACS on STN
 RN 302954-63-8 REGISTRY
 CN 1-Naphthalenecarboxaldehyde, 2-hydroxy-, (5,6-dimethylthieno[2,3-d]pyrimidin-4-yl)hydrazone (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C19 H16 N4 O S
 SR Chemical Library
 LC STN Files: CA, CAPLUS, CHEMCATS, USPATFULL

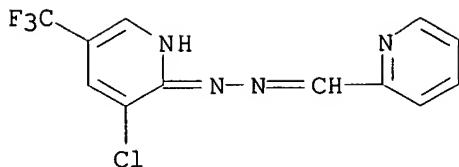


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1947 TO DATE)
1 REFERENCES IN FILE CAPLUS (1947 TO DATE)

REFERENCE 1: 137:352894

L12 ANSWER 21 OF 33 REGISTRY COPYRIGHT 2003 ACS on STN
 RN 173213-31-5 REGISTRY
 CN 2-Pyridinecarboxaldehyde, [3-chloro-5-(trifluoromethyl)-2-pyridinyl]hydrazone (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C12 H8 Cl F3 N4
 SR CA
 LC STN Files: CA, CAPLUS, CHEMCATS, USPATFULL



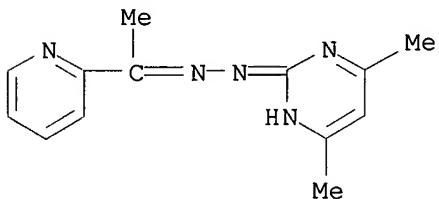
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1947 TO DATE)
2 REFERENCES IN FILE CAPLUS (1947 TO DATE)

REFERENCE 1: 137:352894

REFERENCE 2: 124:130984

L12 ANSWER 22 OF 33 REGISTRY COPYRIGHT 2003 ACS on STN
 RN 157592-75-1 REGISTRY
 CN 2(1H)-Pyrimidinone, 4,6-dimethyl-, [1-(2-pyridinyl)ethylidene]hydrazone
 (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C13 H15 N5
 SR CA
 LC STN Files: CA, CAPLUS, CHEMCATS, TOXCENTER, USPATFULL



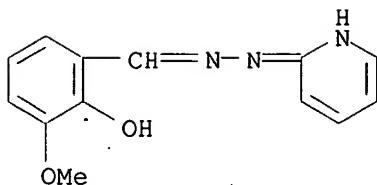
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1947 TO DATE)
2 REFERENCES IN FILE CAPLUS (1947 TO DATE)

REFERENCE 1: 137:352894

REFERENCE 2: 121:173078

L12 ANSWER 23 OF 33 REGISTRY COPYRIGHT 2003 ACS on STN
 RN 111781-93-2 REGISTRY
 CN Benzaldehyde, 2-hydroxy-3-methoxy-, 2-pyridinylhydrazone (9CI) (CA INDEX
 NAME)
 FS 3D CONCORD
 MF C13 H13 N3 O2
 SR CA
 LC STN Files: CA, CAPLUS, CHEMCATS, GMELIN*, TOXCENTER, USPATFULL
 (*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

3 REFERENCES IN FILE CA (1947 TO DATE)
3 REFERENCES IN FILE CAPLUS (1947 TO DATE)

REFERENCE 1: 137:352894

REFERENCE 2: 111:48202

REFERENCE 3: 108:299

L12 ANSWER 24 OF 33 REGISTRY COPYRIGHT 2003 ACS on STN

RN 87877-49-4 REGISTRY

CN 4-Pyridinecarboxaldehyde, 3-hydroxy-5-(hydroxymethyl)-2-methyl-,
2-pyridinylhydrazone (9CI) (CA INDEX NAME)

OTHER NAMES:

CN Pyridoxal 2-pyridylhydrazone

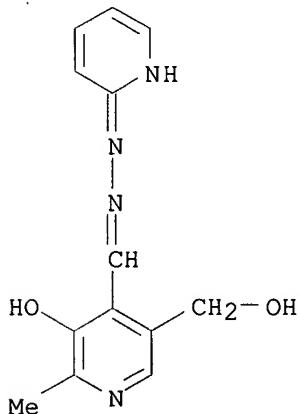
FS 3D CONCORD

MF C13 H14 N4 O2

CI COM

LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, CHEMINFORMRX, TOXCENTER,
USPATFULL

(*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

15 REFERENCES IN FILE CA (1947 TO DATE)
1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
15 REFERENCES IN FILE CAPLUS (1947 TO DATE)

REFERENCE 1: 137:352894

REFERENCE 2: 130:182286

REFERENCE 3: 128:265734

REFERENCE 4: 124:165153

REFERENCE 5: 124:75555

REFERENCE 6: 123:102033

REFERENCE 7: 122:186677

REFERENCE 8: 122:177689

REFERENCE 9: 116:187493

REFERENCE 10: 112:98388

L12 ANSWER 25 OF 33 REGISTRY COPYRIGHT 2003 ACS on STN

RN 63711-22-8 REGISTRY

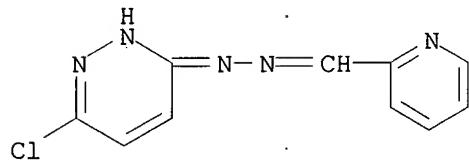
CN 2-Pyridinecarboxaldehyde, (6-chloro-3-pyridazinyl)hydrazone (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C10 H8 Cl N5

LC STN Files: BEILSTEIN*, CA, CAPLUS, CHEMCATS, USPATFULL

(*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1947 TO DATE)

2 REFERENCES IN FILE CAPLUS (1947 TO DATE)

REFERENCE 1: 137:352894

REFERENCE 2: 87:84903

L12 ANSWER 26 OF 33 REGISTRY COPYRIGHT 2003 ACS on STN

RN 59473-50-6 REGISTRY

CN Benzaldehyde, 2-methyl-, phenylhydrazone (9CI) (CA INDEX NAME)

OTHER NAMES:

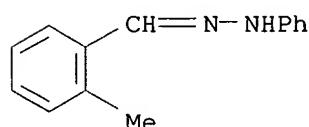
CN o-Methylbenzaldehyde phenylhydrazone

FS 3D CONCORD

MF C14 H14 N2

LC STN Files: BEILSTEIN*, CA, CAPLUS, CHEMCATS, TOXCENTER, USPATFULL

(*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

5 REFERENCES IN FILE CA (1947 TO DATE)
 5 REFERENCES IN FILE CAPIUS (1947 TO DATE)

REFERENCE 1: 137:352894

REFERENCE 2: 107:228109

REFERENCE 3: 89:179065

REFERENCE 4: 85:108376

REFERENCE 5: 85:42100

L12 ANSWER 27 OF 33 REGISTRY COPYRIGHT 2003 ACS on STN

RN 58333-11-2 REGISTRY

CN 2-Pyridinecarboxaldehyde, 6-methyl-, 2-pyridinylhydrazone (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Picolinaldehyde, 6-methyl-, 2-pyridylhydrazone (7CI)

OTHER NAMES:

CN NSC 332994

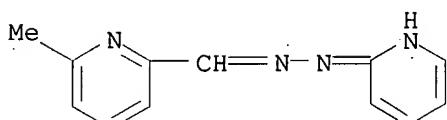
FS 3D CONCORD

MF C12 H12 N4

CI COM

LC STN Files: BEILSTEIN*, CA, CAOLD, CAPIUS, CASREACT, CHEMCATS, GMELIN*, TOXCENTER, USPATFULL

(*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

15 REFERENCES IN FILE CA (1947 TO DATE)
 1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 15 REFERENCES IN FILE CAPIUS (1947 TO DATE)
 1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 137:352894

REFERENCE 2: 123:159265

REFERENCE 3: 122:225151

REFERENCE 4: 121:173061

REFERENCE 5: 120:297925

REFERENCE 6: 120:281636

REFERENCE 7: 110:231439

REFERENCE 8: 108:160300

REFERENCE 9: 103:189309

REFERENCE 10: 94:184707

L12 ANSWER 28 OF 33 REGISTRY COPYRIGHT 2003 ACS on STN

RN 16111-50-5 REGISTRY

CN 2(1H)-Pyridinone, [1-(2-pyridinyl)ethylidene]hydrazone (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Ketone, methyl 2-pyridyl, 2-pyridylhydrazone (8CI)

OTHER NAMES:

CN NSC 332437

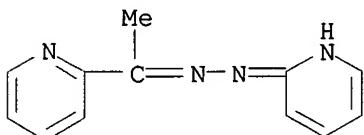
FS 3D CONCORD

MF C12 H12 N4

CI COM

LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, CHEMCATS, CSCHEM, IFICDB, IFIPAT, IFIUDB, TOXCENTER, USPATFULL

(*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

10 REFERENCES IN FILE CA (1947 TO DATE)

10 REFERENCES IN FILE CAPLUS (1947 TO DATE)

REFERENCE 1: 137:352894

REFERENCE 2: 129:62013

REFERENCE 3: 121:173061

REFERENCE 4: 110:231439

REFERENCE 5: 103:189309

REFERENCE 6: 91:56779

REFERENCE 7: 71:49810

REFERENCE 8: 66:90161

REFERENCE 9: 58:57882

REFERENCE 10: 58:57881

L12 ANSWER 29 OF 33 REGISTRY COPYRIGHT 2003 ACS on STN

RN 7727-07-3 REGISTRY

CN 2-Pyridinecarboxaldehyde, phenylhydrazone (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Picolinaldehyde, phenylhydrazone (6CI, 7CI, 8CI)

OTHER NAMES:

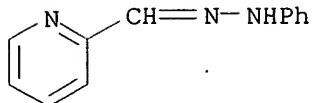
CN Pyridine-2-aldehyde phenylhydrazone

FS 3D CONCORD

MF C12 H11 N3

CI COM

LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS, CASREACT, CHEMCATS, GMELIN*,
 SPECINFO, TOXCENTER, USPATFULL
 (*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

31 REFERENCES IN FILE CA (1947 TO DATE)
 4 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 31 REFERENCES IN FILE CAPLUS (1947 TO DATE)
 6 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 137:392552

REFERENCE 2: 137:352894

REFERENCE 3: 136:232329

REFERENCE 4: 135:203066

REFERENCE 5: 133:321923

REFERENCE 6: 120:297925

REFERENCE 7: 116:235823

REFERENCE 8: 116:54285

REFERENCE 9: 113:201071

REFERENCE 10: 109:85213

L12 ANSWER 30 OF 33 REGISTRY COPYRIGHT 2003 ACS on STN

RN 7385-99-1 REGISTRY

CN 2-Pyridinecarboxaldehyde, 2-quinolylhydrazone (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Picolinaldehyde, 2-quinolylhydrazone (7CI, 8CI)

OTHER NAMES:

CN 2-Pyridinecarboxaldehyde 2-quinolylhydrazone

CN 2-Pyridylaldehyde 2-quinolylhydrazone

CN Picolinealdehyde-2-quinolylhydrazone

CN PQ 22

CN Pyridine-2-aldehyde-2-quinolylhydrazone

FS 3D CONCORD

MF C15 H12 N4

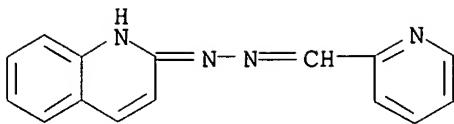
CI COM

LC STN Files: BEILSTEIN*, BIOSIS, CA, CAOLD, CAPLUS, CASREACT, CHEMCATS,
 CHEMLIST, CSCHEM, GMELIN*, IFICDB, IFIPAT, IFIUDB, SPECINFO, TOXCENTER,
 USPATFULL

(*File contains numerically searchable property data)

Other Sources: EINECS**, NDSL**, TSCA**

(**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

36 REFERENCES IN FILE CA (1947 TO DATE)
 3 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 36 REFERENCES IN FILE CAPLUS (1947 TO DATE)
 3 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 138:166215

REFERENCE 2: 137:352894

REFERENCE 3: 123:159265

REFERENCE 4: 122:225151

REFERENCE 5: 122:23306

REFERENCE 6: 120:297925

REFERENCE 7: 120:281636

REFERENCE 8: 120:174748

REFERENCE 9: 116:202010

REFERENCE 10: 114:71075

L12 ANSWER 31 OF 33 REGISTRY COPYRIGHT 2003 ACS on STN

RN 3788-81-6 REGISTRY

CN 2-Pyridinecarboxaldehyde, 2-benzothiazolylhydrazone (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Picolinaldehyde, 2-benzothiazolylhydrazone (7CI, 8CI)

OTHER NAMES:

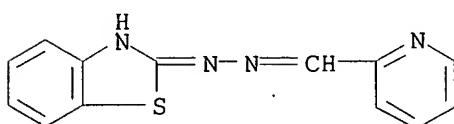
CN 2-Pyridylaldehyde 2-benzothiazolylhydrazone

FS 3D CONCORD

MF C13 H10 N4 S

LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS, CASREACT, CHEMCATS, IFICDB, IFIPAT, IFIUDB, TOXCENTER, USPATFULL

(*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

14 REFERENCES IN FILE CA (1947 TO DATE)
 3 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 14 REFERENCES IN FILE CAPLUS (1947 TO DATE)

1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 137:352894
 REFERENCE 2: 135:203066
 REFERENCE 3: 117:244679
 REFERENCE 4: 107:165463
 REFERENCE 5: 103:189309
 REFERENCE 6: 102:87723
 REFERENCE 7: 101:219923
 REFERENCE 8: 97:84053
 REFERENCE 9: 92:94313
 REFERENCE 10: 87:68212

L12 ANSWER 32 OF 33 REGISTRY COPYRIGHT 2003 ACS on STN
 RN 2824-60-4 REGISTRY

CN Benzaldehyde, 2-hydroxy-, 2-pyridinylhydrazone (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:

CN Salicylaldehyde, 2-pyridylhydrazone (7CI, 8CI)

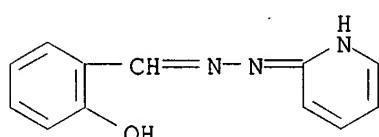
OTHER NAMES:

CN NSC 98558

FS 3D CONCORD

MF C12 H11 N3 O

LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS, CHEMCATS, TOXCENTER, USPATFULL
 (*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

18 REFERENCES IN FILE CA (1947 TO DATE)
 2 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 18 REFERENCES IN FILE CAPLUS (1947 TO DATE)
 2 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 137:352894
 REFERENCE 2: 137:194466
 REFERENCE 3: 123:159265
 REFERENCE 4: 116:187493
 REFERENCE 5: 109:66033
 REFERENCE 6: 108:299
 REFERENCE 7: 106:60461

REFERENCE 8: 103:223589

REFERENCE 9: 102:158127

REFERENCE 10: 101:136656

L12 ANSWER 33 OF 33 REGISTRY COPYRIGHT 2003 ACS on STN

RN 614-65-3 REGISTRY

CN Benzaldehyde, 2-hydroxy-, phenylhydrazone (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Salicylaldehyde, phenylhydrazone (6CI, 7CI, 8CI)

OTHER NAMES:

CN 2-Hydroxybenzaldehyde phenylhydrazone

CN NSC 68558

CN o-Hydroxybenzaldehyde phenylhydrazone

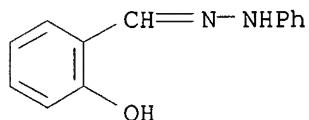
CN Salicylic aldehyde phenylhydrazone

FS 3D CONCORD

MF C13 H12 N2 O

LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS, CASREACT, CHEMCATS, GMELIN*,
IFICDB, IFIPAT, IFIUDB, TOXCENTER, USPATFULL

(*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

74 REFERENCES IN FILE CA (1947 TO DATE)

5 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

75 REFERENCES IN FILE CAPLUS (1947 TO DATE)

7 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 138:130167

REFERENCE 2: 138:79189

REFERENCE 3: 137:361874

REFERENCE 4: 137:352894

REFERENCE 5: 137:78666

REFERENCE 6: 136:199863

REFERENCE 7: 136:167428

REFERENCE 8: 136:19729

REFERENCE 9: 133:275500

REFERENCE 10: 133:232028

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L14 ANSWER 1 OF 2 REGISTRY COPYRIGHT 2003 ACS on STN

RN 127464-60-2 REGISTRY

CN Vascular endothelial growth factor (9CI) (CA INDEX NAME)
 OTHER NAMES:
 CN Animal growth regulator, VEGF
 CN Animal growth regulators, glioma-derived vascular endothelial growth factors
 CN Animal growth regulators, VEGF
 CN Animal growth regulators, VEGF (vascular endothelial growth factor)
 CN Cytokines, vascular permeability factor
 CN Folliculo-stellate-derived growth factors
 CN FSdGF pituitary hormones
 CN Glioma-derived vascular endothelial growth factors
 CN Pituitary hormones, folliculo-stellate-derived growth factors
 CN Vascular permeability factor
 CN Vasculotropin
 MF Unspecified
 CI MAN
 SR CA
 LC STN Files: ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CANCERLIT, CAPLUS, CEN, CHEMCATS, CIN, DDFU, DRUGU, EMBASE, IPA, MEDLINE, PHAR, PROMT, TOXCENTER, USPAT2, USPATFULL

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

7317 REFERENCES IN FILE CA (1947 TO DATE)
 101 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 7352 REFERENCES IN FILE CAPLUS (1947 TO DATE)

REFERENCE 1: 139:90457
 REFERENCE 2: 139:83741
 REFERENCE 3: 139:83734
 REFERENCE 4: 139:83721
 REFERENCE 5: 139:83672
 REFERENCE 6: 139:83450
 REFERENCE 7: 139:83196
 REFERENCE 8: 139:83122
 REFERENCE 9: 139:83120
 REFERENCE 10: 139:83118

L14 ANSWER 2 OF 2 REGISTRY COPYRIGHT 2003 ACS on STN

RN 11096-26-7 REGISTRY

CN Erythropoietin (9CI) (CA INDEX NAME)

OTHER NAMES:

CN Ep
 CN EPO
 CN Epoetin
 CN Eopgis S
 CN Hemopoietine
 MF Unspecified
 CI COM, MAN
 LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CABA, CANCERLIT, CAPLUS, CBNB, CEN, CHEMCATS, CHEMLIST, CIN, CSCHEM, DDFU, DIOGENES, DRUGPAT, DRUGU, DRUGUPDATES, EMBASE, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, NIOSHTIC, PHAR, PROMT, RTECS*, TOXCENTER, USPAT2, USPATFULL, VETU
 (*File contains numerically searchable property data)

Other Sources: EINECS**

(**Enter CHEMLIST File for up-to-date regulatory information)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

7614 REFERENCES IN FILE CA (1947 TO DATE)

183 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

7629 REFERENCES IN FILE CAPLUS (1947 TO DATE)

REFERENCE 1: 139:90456

REFERENCE 2: 139:90450

REFERENCE 3: 139:79531

REFERENCE 4: 139:79514

REFERENCE 5: 139:79502

REFERENCE 6: 139:79241

REFERENCE 7: 139:79179

REFERENCE 8: 139:79162

REFERENCE 9: 139:79130

REFERENCE 10: 139:78619

=> d his

(FILE 'HOME' ENTERED AT 15:44:00 ON 05 AUG 2003)
SET COST OFF

FILE 'HCAPLUS' ENTERED AT 15:44:15 ON 05 AUG 2003

L1 1 S US20030092716/PN
SEL RN

FILE 'REGISTRY' ENTERED AT 15:44:28 ON 05 AUG 2003

L2 65 S E1-E65
L3 1 S 2215-33-0
L4 2 S 28668-95-3 OR 31523-22-5
L5 15 S L2 AND 474787-?/RN
L6 14 S L5 AND N>=2
L7 47 S L2 NOT L3-L6
L8 34 S L7 AND N>=2
L9 10 S 614-65-3 OR 2824-60-4 OR 3788-81-6 OR 7385-99-1 OR 7727-07-3
L10 9 S 111781-93-2 OR 157592-75-1 OR 173213-31-5 OR 302954-63-8 OR 3
L11 19 S L9,L10 AND N>=2
L12 33 S L6,L11
L13 32 S L2 NOT L12
L14 2 S L13 AND UNSPECIFIED

FILE 'HCAPLUS' ENTERED AT 16:39:18 ON 05 AUG 2003

E ALMSTEAD J/AU
L15 14 S E5-E7
E IZZO N/AU
L16 17 S E4-E9
E JONES D/AU
L17 251 S E3
L18 302 S E84-E94
E JONES DAVE/AU
L19 496 S E3,E7

E JONES DAVID R/AU
 L20 147 S E3-E5,E9
 E KAWAMOTO R/AU
 L21 17 S E3,E4,E6-E8
 L22 1240 S L15-L21
 L23 1239 S L22 NOT L1
 L24 189 S L12
 L25 0 S L23 AND L24
 L26 1 S L24 AND (PROC? OR GAMB?)/PA,CS
 L27 1 S L1,L26 AND L22

FILE 'REGISTRY' ENTERED AT 16:42:27 ON 05 AUG 2003

FILE 'HCAPLUS' ENTERED AT 16:42:32 ON 05 AUG 2003

SET SMARTSELECT ON
 L28 SEL L23 1- RN : 2418 TERMS
 SET SMARTSELECT OFF

FILE 'REGISTRY' ENTERED AT 16:43:08 ON 05 AUG 2003

L29 2417 S L28
 L30 747 S L29 AND N>=2
 L31 671 S L30 NOT (SQL/FA OR PMS/CI)
 L32 18 S L31 AND ?HYDRAZ?/CNS
 L33 STR
 L34 48 S L33 CSS SAM
 L35 SCR 1839 AND 1993
 L36 SCR 1632 OR 1634
 L37 SCR 2039 OR 2127 OR 2050 OR 2049 OR 2048 OR 2053 OR 2052 OR 205
 L38 50 S L33 AND L35 AND L36 NOT L37 CSS SAM
 L39 STR L33
 L40 50 S L39 AND L35 AND L36 NOT L37 CSS SAM
 L41 STR L39
 L42 50 S L41 AND L35 AND L36 NOT L37 CSS SAM
 L43 STR L41
 L44 50 S L41 AND L35 AND L36 NOT L37 CSS SAM

FILE 'REGISTRY' ENTERED AT 16:58:52 ON 05 AUG 2003

FILE 'HCAPLUS' ENTERED AT 16:59:22 ON 05 AUG 2003

L45 182 S L24 AND (PD<=20010504 OR PRD<=20010504 OR AD<=20010504)
 L46 14819 S L14
 L47 11971 S ERYTHROPOIETIN? OR EPO
 L48 9465 S VASCUL? ENDOTHEL? GROWTH FACTOR
 L49 16 S VASCULOTROPIN?
 L50 508 S VASCUL? PERMEABIL? FACTOR
 L51 276 S EPOETIN?
 L52 10 S ANIMAL GROWTH REGULATOR VEGF
 L53 7709 S VEGF
 L54 1 S L45 AND L46-L53
 L55 1 S L45 AND VASCULARI?
 E BLOOD VESSEL/CT
 L56 1 S L45 AND E3-E59
 L57 0 S L45 AND E60-E96
 L58 0 S L45 AND E97-E113
 E E3+ALL
 L59 1 S L45 AND E4+NT
 E E25+ALL
 L60 0 S L45 AND E4,E5,E3+NT
 L61 1 S L45 AND ?VASCUL?
 L62 1 S L27,L54-L61

FILE 'HCAPLUS' ENTERED AT 17:07:23 ON 05 AUG 2003

L63 3 S (US5985913 OR US5942527 OR US6329378)/PN

SET SMA OFF
SEL RAN.HCAPLUS(2) L62 1
SET SMA LOGIN

L64 1 S E1
L65 4 S L63,L64
L66 1 S L65 AND L24
L67 1 S L65 AND L46-L53
L68 2 S L66,L67
L69 4 S L65,L68

FILE 'REGISTRY' ENTERED AT 17:11:42 ON 05 AUG 2003